

FIG. 1

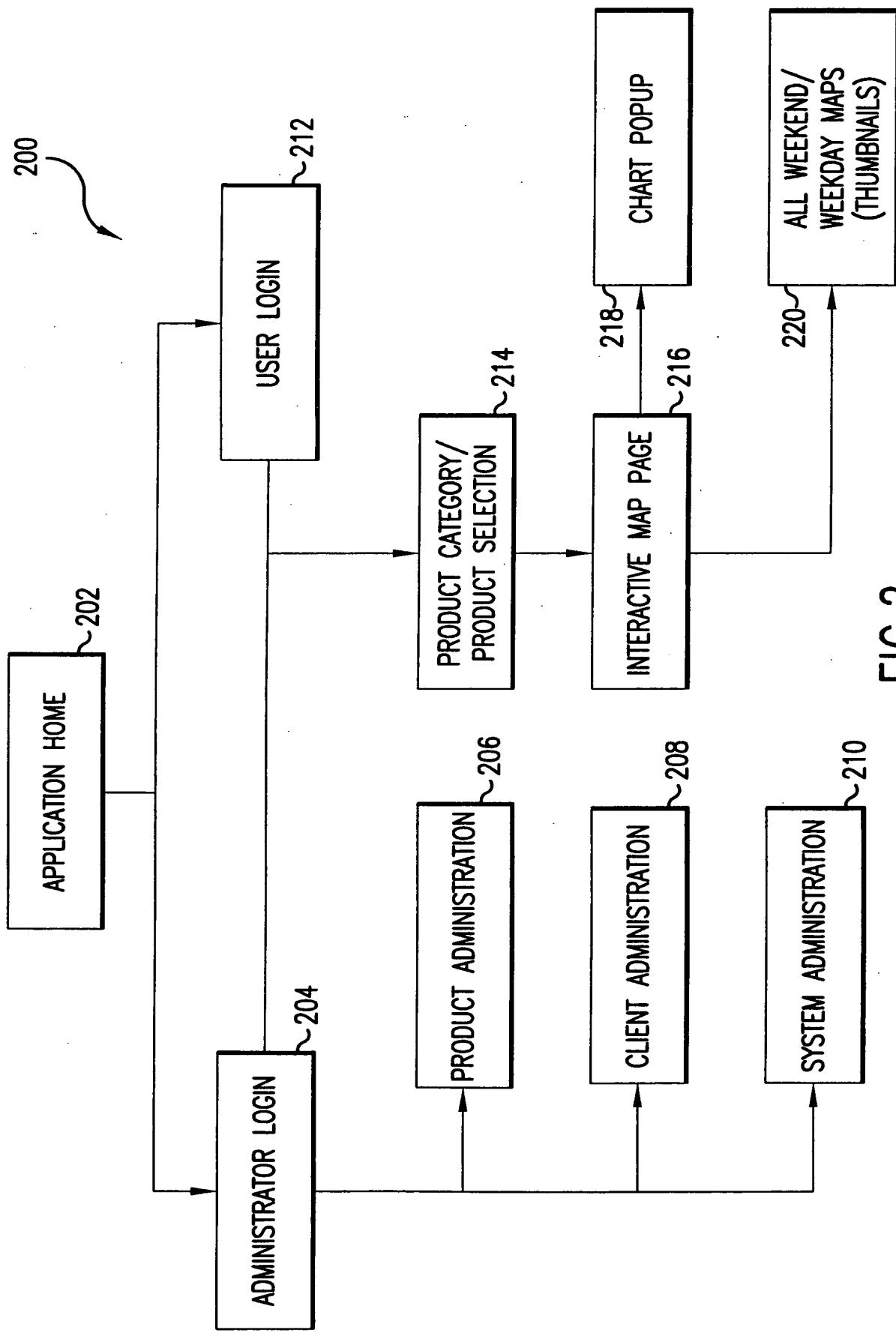


FIG.2

FIG. 3

Impact SR - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Print Mail Edit

Address http://w-jimvan-nlws/impactsr/demo/map.html

planalytics™ RETAIL

Time Period: Monday <date> to Sunday <date>, Week #>

Interactive Map Weekend Maps

More Favorable | Favorable | Neutral | Unfavorable | Less Unfavorable

One Click

Map Click

300

Product Category: Womens' Apparel 302

Product: Summer Dresses 304

Map Display

Weather Favorability 2000 (current year) 312

Geo-Level STATES 308

Geo-Level labels

Geo-level Overlay

none

Overlay labels

Geo-level Drill-Down

none

Auto Zoom

Refresh Map

306

308

310

312

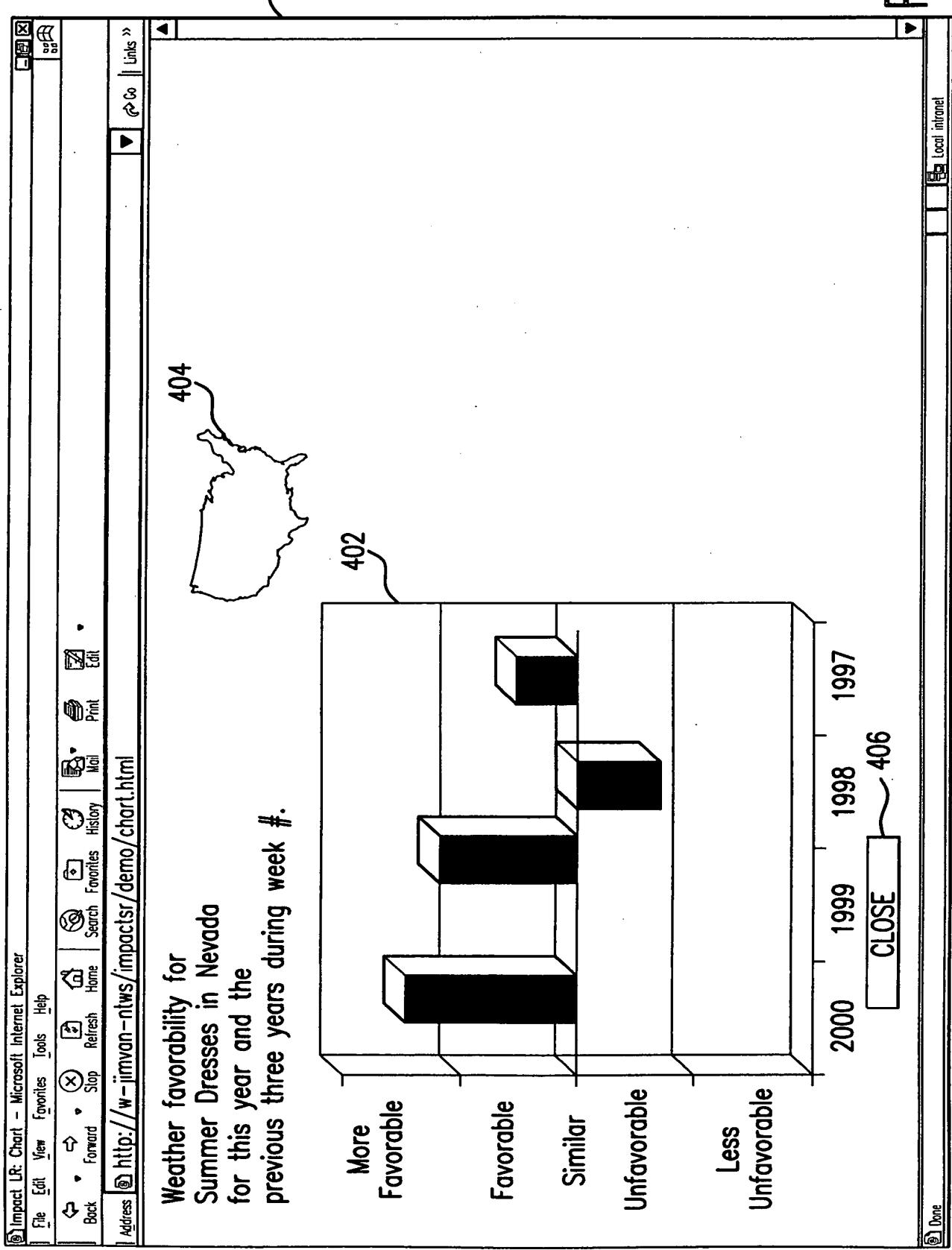
Local Internet

Done

Mon Tue Wed Thu Fri Sat Sun

Weather favorability for Summer Dresses

Map



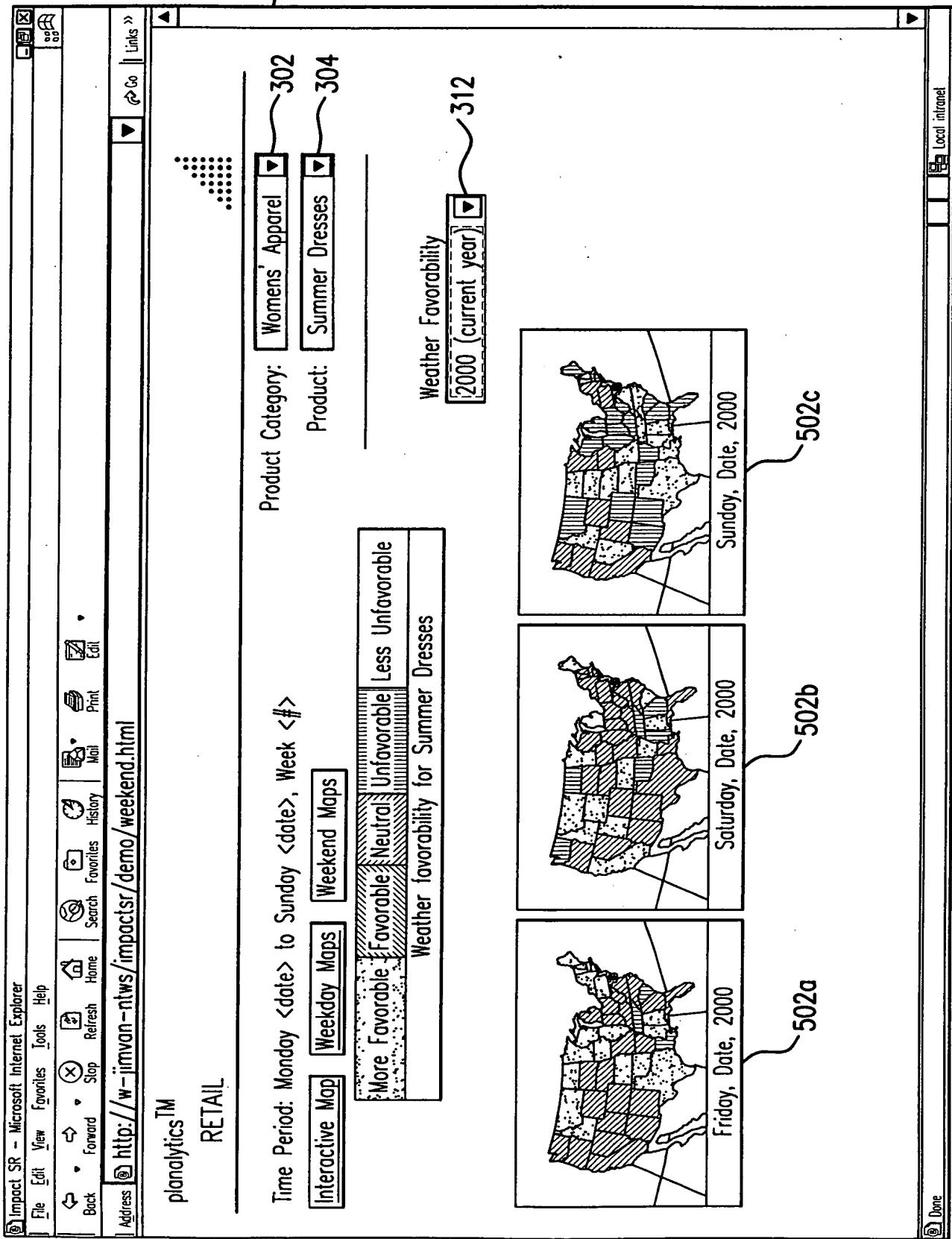
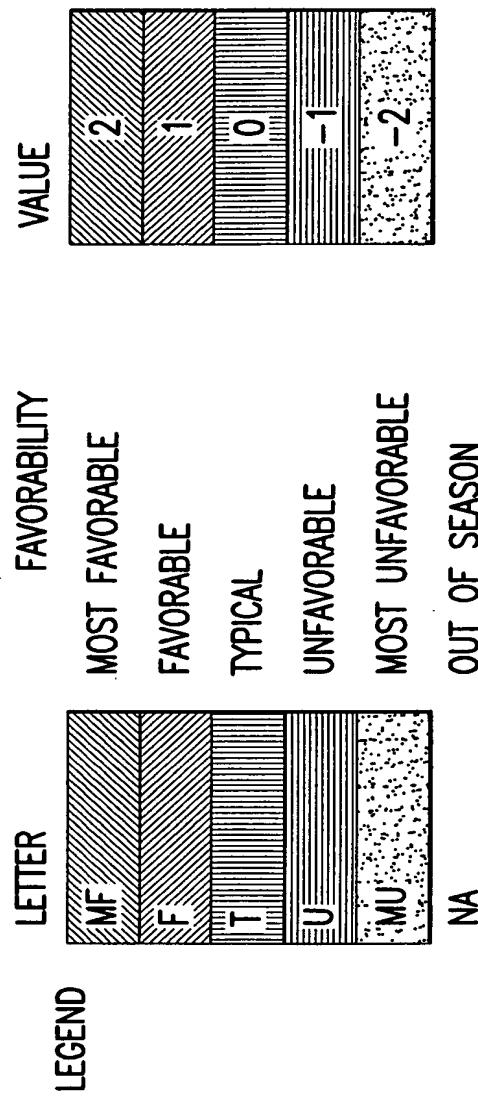


FIG. 5



		PRODUCT SPECIFIC FAVORABILITY MATRIX					
		DRY	SHOWERS	RAIN	SNOW		
PRODUCT	A/C	2	2	1	1	-1	-2
		2	2	1	1	-1	-2
1	FANS	2					
	AUTO A/C UNITS	2					
22	BOTTLED WATER						
	V. COLD						
26							

FIG. 6A

	B	DRY	SHOWERS	RAIN	SNOW
HEATERS	V. WARM	-2	-2	-1	0
FILTERS	WARM	-1	-1	-1	0
	SEASONAL	0	0	1	1
	COLD	1	2	2	2
	V. COLD	2	2	2	2

3

	C	DRY	SHOWERS	RAIN	SNOW
HUMIDIFIERS	V. WARM	-2	-2	-2	0
	WARM	-1	-1	-1	0
	SEASONAL	0	0	0	0
	COLD	2	2	1	1
	V. COLD	2	2	1	1

4

FIG. 6B

Replacement Sheet

Sheet 8 of 29

Appl. No. 09/656,397; Filed: Sep 6, 2000

Dkt No. 1481.0100004/PEG/TAD; Group Unit: 3628

Inventors: FOX et al.

Tel. No.: 202-371-2600

For: System, Method and Computer Program Product for
Short-Range Weather Adapted, Business Forecasting

5 BEDDING PLATNS
 6 TREES & SHRUBS
 WARM IS GOOD

D	DRY	SHOWERS	RAIN	SNOW
V. WARM	2	1	-1	-2
WARM	2	1	-1	-2
SEASONAL	1	0	-1	-2
COLD	-1	-1	-2	-2
V. COLD	-1	-1	-2	-2

5 BEDDING PLATNS
 6 TREES & SHRUBS
 SEASONAL IS GOOD

E	DRY	SHOWERS	RAIN	SNOW
V. WARM	-1	-1	-2	-2
WARM	0	0	-2	-2
SEASONAL	2	2	-1	-2
COLD	1	1	-1	-2
V. COLD	-1	-1	-2	-2

FIG. 6C

5 BEDDING PLATNS
6 TREES & SHRUBS
COLD IS GOOD

	F	DRY	SHOWERS	RAIN	SNOW
V. WARM	-2	-2	-2	-2	-2
WARM	-1	-1	-2	-2	-2
SEASONAL	1	1	-1	-2	-2
COLD	2	2	-1	-2	-2
V. COLD	1	1	-1	-2	-2

7 GED SOIL/PEAT/MULCH
WARM/DRY GOOD

	G	DRY	SHOWERS	RAIN	SNOW
V. WARM	2	1	-1	-1	-2
WARM	2	1	-1	-1	-2
SEASONAL	1	0	-1	-1	-2
COLD	-1	-1	-2	-2	-2
V. COLD	-1	-1	-2	-2	-2

FIG. 6D

7 GED SOIL/PEAT/MULCH
SEASONAL/DRY GOOD

H	DRY	SHOWERS	RAIN	SNOW
V. WARM	-1	-1	-2	-2
WARM	0	0	-2	-2
SEASONAL	2	1	-1	-2
COLD	1	1	-1	-2
V. COLD	-1	-1	-2	-2

7 GED SOIL/PEAT/MULCH
COLD/DRY GOOD

I	DRY	SHOWERS	RAIN	SNOW
V. WARM	-2	-2	-2	-2
WARM	0	-1	-2	-2
SEASONAL	1	1	-1	-2
COLD	2	2	-1	-2
V. COLD	1	1	-1	-2

FIG. 6E

FERTILIZER
WARM/DRY GOOD

J	DRY	SHOWERS	RAIN	SNOW
V. WARM	2	1	-1	-2
WARM	2	1	-1	-2
SEASONAL	1	0	-1	-2
COLD	0	-1	-2	-2
V. COLD	-1	-1	-2	-2

FERTIZERS
SEAS.T/SEAS.P. GOOD

K	DRY	SHOWERS	RAIN	SNOW
V. WARM	-1	-1	-1	-2
WARM	0	1	-1	-2
SEASONAL	2	2	-1	-2
COLD	1	1	-1	-2
V. COLD	-1	0	-1	-2

FIG. 6F

8 FERTILIZERS
COLD/SEAS.P GOOD

L	DRY	SHOWERS	RAIN	SNOW
V. WARM	-2	-1	-1	-2
WARM	-1	0	-1	-2
SEASONAL	0	1	-1	-2
COLD	1	2	-1	-2
V. COLD	1	1	-1	-2

9 WEED KILLER
INSECTICIDES
WARM GOOD

10

M	DRY	SHOWERS	RAIN	SNOW
V. WARM	2	1	-1	-2
WARM	2	1	-1	-2
SEASONAL	0	0	-1	-2
COLD	0	-1	-2	-2
V. COLD	-1	-2	-2	-2

FIG.6G

	WEED KILLER	N	DRY	SHOWERS	RAIN	SNOW
9						
10	INSECTICIDES	V. WARM	0	0	-2	-2
	WARM	0	1	-2	-2	-2
	SEASONAL	2	2	-1	-2	-2
	COLD	1	1	-2	-2	-2
	V. COLD	-1	-1	-2	-2	-2

9
 WEED KILLER
 INSECTICIDES
 SEASONAL GOOD

	SPRINKLERS/HOSES	0	DRY	SHOWERS	RAIN	SNOW
11						
	WARM/DRY GOOD	V. WARM	2	1	-1	-2
	WARM	2	1	-1	-1	-2
	SEASONAL	1	0	-1	-1	-2
	COLD	1	-1	-2	-2	-2
	V. COLD	0	-1	-1	-2	-2

11
 SPRINKLERS/HOSES
 WARM/DRY GOOD

FIG. 6H

12 MOWERS/TRIMMERS
WARM/SEAS P. GOOD

P	DRY	SHOWERS	RAIN	SNOW
V. WARM	1	2	-1	-2
WARM	1	2	-1	-2
SEASONAL	1	1	-1	-2
COLD	0	-1	-2	-2
V. COLD	-1	-1	-2	-2

12 MOWERS/TRIMMERS
SEAS T./SEAS P. GOOD

Q	DRY	SHOWERS	RAIN	SNOW
V. WARM	-2	0	-1	-2
WARM	-1	1	-1	-2
SEASONAL	0	2	-1	-2
COLD	1	1	-1	-2
V. COLD	-1	0	-1	-2

FIG. 6I

12 MOWERS/TRIMMERS
COLD T/SEAS P GOOD

R	DRY	SHOWERS	RAIN	SNOW
V. WARM	-2	-1	-1	-2
WARM	-1	0	-1	-2
SEASONAL	0	1	-1	-2
COLD	1	2	-1	-2
V. COLD	1	2	-1	-2

13 GARDEN TOOLS
15 GRILLS/CHARCOAL
16 O/FURN. LAWN CHAIRS
20 WAX/WASH CHEMICALS
31 HOUSE/DECK PAINT
WARM GOOD

S	DRY	SHOWERS	RAIN	SNOW
V. WARM	2	1	-1	-2
WARM	2	1	-1	-2
SEASONAL	1	0	-1	-2
COLD	-1	-1	-2	-2
V. COLD	-1	-1	-2	-2

FIG. 6J

	GARDEN TOOLS	T	DRY	SHOWERS	RAIN	SNOW
13	GRILLS/CHARCOAL	V. WARM	-1	-1	-2	-2
15	O/FURN. LAWN CHAIRS	WARM	0	0	-2	-2
16	0/WASH CHEMICALS	SEASONAL	2	2	-1	-2
20	HOUSE/DECK PAINT	COLD	1	1	-1	-2
31	SEASONAL IS GOOD	V. COLD	-1	-1	-2	-2

	GARDEN TOOLS	U	DRY	SHOWERS	RAIN	SNOW
13	GRILLS/CHARCOAL	V. WARM	-2	-2	-2	-2
15	O/FURN. LAWN CHAIRS	WARM	-1	-1	-2	-2
16	0/WASH CHEMICALS	SEASONAL	1	1	-1	-2
20	HOUSE/DECK PAINT	COLD	2	2	-1	-2
31	COLD IS GOOD	V. COLD	1	1	-1	-2

FIG. 6K

14 POOL SUPPLIES
24 WATER TOYS
25 KID POOLS/POOL TOYS
28 SUNTAN LOTION
29 BEACH SUPPLIES

	V	DRY	SHOWERS	RAIN	SNOW
	V. WARM	2	1	0	-2
	WARM	2	1	-1	-2
	SEASONAL	0	0	-1	-2
	COLD	-1	-1	-2	-2
	V. COLD	-1	-1	-2	-2

17 NOW TOOLS/BLOWERS
 SNOW/ICE/FROST GOOD

	W	DRY	SNOW SHWR.	ICE	SNOW
	V. WARM	-2	-2	0	1
	WARM	-2	-1	1	1
	SEASONAL	-1	1	1	2
	COLD	0	2	2	2
	V. COLD	1	2	2	2

**NOTE: WINTER
PRECIP
LEGEND**

FIG. 6L

18 FIRELOGS
COLD/WET GOOD

	X	DRY	R/S SHWRS.	RAIN/ICE	SNOW	NOTE: WINTER PRECIP LEGEND
	V. WARM	-2	-2	-1	0	
	WARM	-1	-1	0	1	
	SEASONAL	0	0	1	1	
	COLD	1	1	2	2	
	V. COLD	2	2	2	2	

18

19 BATTERIES
ANTIFREEZE
COLD IS GOOD

	Y	DRY	SHOWERS	RAIN	SNOW	
	V. WARM	-2	-2	-2	0	
	WARM	-1	-1	-1	0	
	SEASONAL	0	0	0	1	
	COLD	1	1	2	2	
	V. COLD	2	2	2	2	

19
21

FIG. 6M

19
BATTERIES
21
ANTIFREEZE

WARM IS GOOD

Z	DRY	SHOWERS	RAIN	SNOW
V. WARM	1	2	2	NA
WARM	1	1	1	NA
SEASONAL	0	0	0	NA
COLD	-1	-1	-1	NA
V. COLD	-2	-2	-2	NA

23
WIPLERS/WASHER FLUID
30
UMBRELLAS

AA	DRY	SHOWERS	RAIN	SNOW
V. WARM	-2	1	2	2
WARM	-2	1	2	2
SEASONAL	-2	1	2	2
COLD	-2	1	2	2
V. COLD	-2	1	2	2

FIG.6N

27 HAND LOTION

	BB	DRY	SHOWERS	RAIN	SNOW
V. WARM	0	-2	-2	0	0
WARM	0	-1	-1	0	0
SEASONAL	1	0	0	1	1
COLD	2	2	0	1	1
V. COLD	2	2	2	2	2

COLD/DRY GOOD

27 HAND LOTION

	CC	DRY	SHOWERS	RAIN	SNOW
V. WARM	2	1	0	0	NA
WARM	1	0	-1	-1	NA
SEASONAL	1	-1	-1	-1	NA
COLD	1	0	-1	-1	NA
V. COLD	2	1	0	0	NA

WARM/DRY GOOD

FIG.60

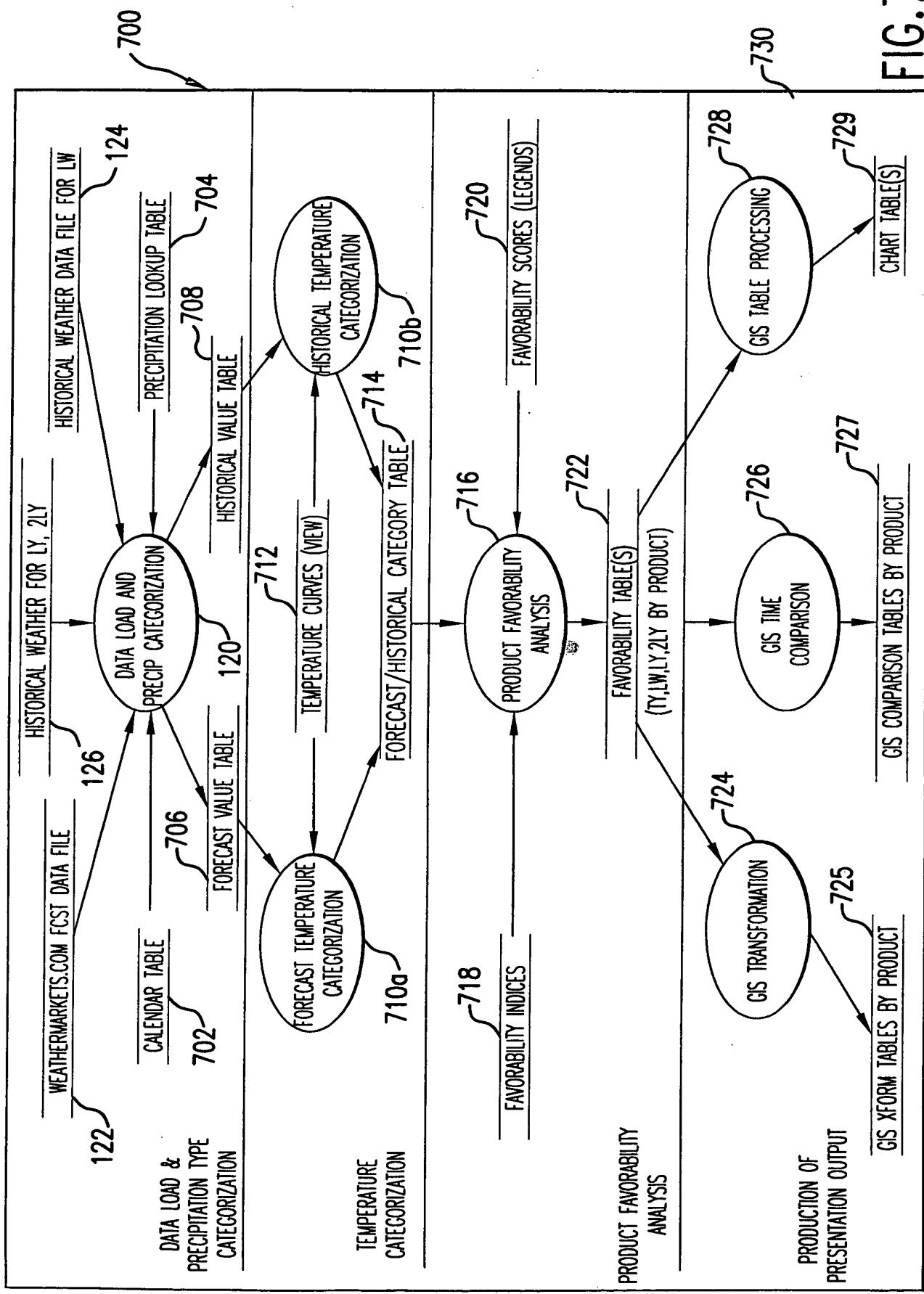


FIG. 7

WEATHER HISTORY 126

YEAR	MA	DATA TYPE	P1	P2	P3	P4	P5	P6
1994	MSA 100	TEMP.SEA	46	47	50	51	54	55
1995	MSA 100	TEMP.SEA	46	47	49	51	53	55
1994	MSA 100	SNOW.SEA	0.7	0.2	0.2	0.1	0	0.1
1995	MSA 100	SNOW.SEA	0.8	0.2	0.2	0.1	0	0
1994	MSA 100	PREC.SEA	1.01	1.03	1.08	1.1	1.12	1.1
1995	MSA 100	PREC.SEA	1.01	1.03	1.07	1.1	1.12	1.1
1994	MSA 100	SNOW	0	0	0	0	1.2	0
1995	MSA 100	SNOW	0	0	0	0	0	0
1994	MSA 100	PREC	1.5	0.4	0.9	1.3	1.7	0.3
1995	MSA 100	PREC	1.1	0.01	2.68	1.78	0.48	0.01
1994	MSA 100	TEMP	49	43	45	47	50	42
1995	MSA 100	TEMP	53	51	56	50	58	54
1994	MSA 100	TEMP.CAT	1	-1	-1	-1	-1	-1
1995	MSA 100	TEMP.CAT	1	1	1	0	1	-1
1994	MSA 100	PREC.CAT	1	-1	-1	1	1	-1
1995	MSA 100	PREC.CAT	1	-1	1	1	1	-1

802
803
804
805

FIG.8

:

WEATHER FORECAST DATA 900

YEAR	MA	DATA TYPE	P1	P2	P3	P4	P5	P6
N+1	MSA 100	SNOW	0.9	0.4	0.3	0.2	0	0
N+1	MSA 100	PREC	1.1	1.05	1.05	1.00	1.15	1.2
N+1	MSA 100	TEMP	48	49	50	53	55	57
N+1	MSA 100	TEMP.CAT	1	1	1	1	1	-1
N+1	MSA 100	PREC.CAT	1	1	-1	-1	1	1
N+1	MSA 100	SNOW.CAT	1	0	0	1	0	0
N+1	MSA 100	SNOW.SEA	0.8	0.4	0.3	0.1	0	0
N+1	MSA 100	PREC.SEA	1.00	1.03	1.06	1.05	1.10	1.1
N+1	MSA 100	TEMP.SEA	47	47	49	52	54	55

902
904

FIG.9

⋮

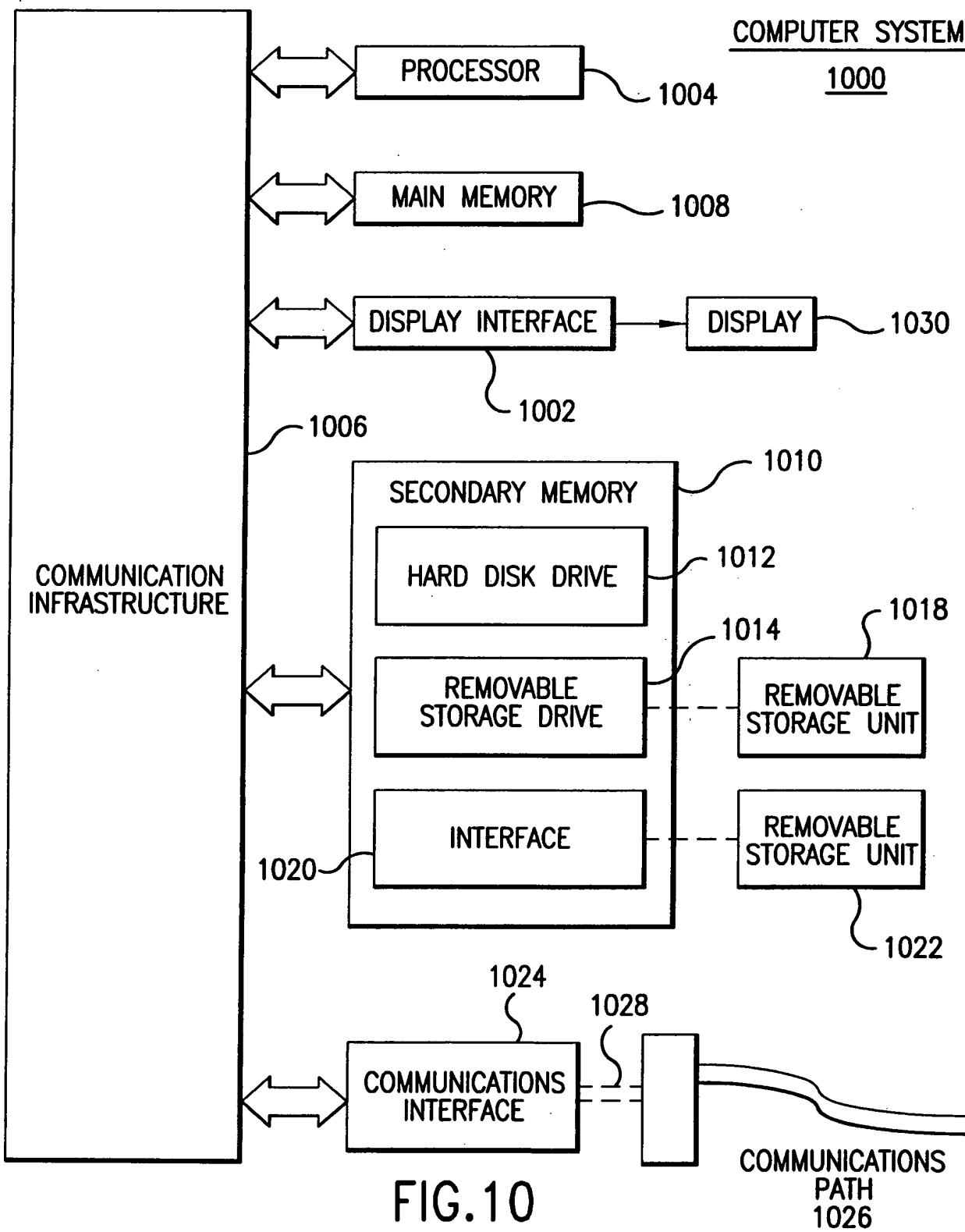


FIG. 10

CALENDAR TABLE 102

NAME	NULL?	TYPE	DATE_ID	YEAR_ID	QUARTER	MONTHNUM	MONTHNAME	WEEKNUM	WEEKDAYNUM	DAYNAME	WEEKEND	HOLIDAYDESC	HOLIDAYFLAG
			NOT NULL	DATE	NUMBER (38)	NUMBER (38)	NUMBER (38)	VARCHAR2 (9)	NUMBER (38)	VARCHAR2 (9)	VARCHAR2 (3)	VARCHAR2 (16)	VARCHAR2 (3)
3-FEB-97	1997	1	1	FEBRUARY	1	1	MONDAY	1	MONDAY	NO		NO	
4-FEB-97	1997	1	1	FEBRUARY	1	2	TUESDAY	2	TUESDAY	NO		NO	
5-FEB-97	1997	1	1	FEBRUARY	1	3	WEDNESDAY	3	WEDNESDAY	NO		NO	
6-FEB-97	1997	1	1	FEBRUARY	1	4	THURSDAY	4	THURSDAY	NO		NO	
7-FEB-97	1997	1	1	FEBRUARY	1	5	FRIDAY	5	FRIDAY	NO		NO	
8-FEB-97	1997	1	1	FEBRUARY	1	6	SATURDAY	6	SATURDAY	YES		NO	
9-FEB-97	1997	1	1	FEBRUARY	1	7	SUNDAY	7	SUNDAY	YES		NO	
10-FEB-97	1997	1	1	FEBRUARY	2	1	MONDAY	1	MONDAY	NO		NO	
11-FEB-97	1997	1	1	FEBRUARY	2	2	TUESDAY	2	TUESDAY	NO		NO	
12-FEB-97	1997	1	1	FEBRUARY	2	3	WEDNESDAY	3	WEDNESDAY	NO		NO	
13-FEB-97	1997	1	1	FEBRUARY	2	4	THURSDAY	4	THURSDAY	NO		NO	
14-FEB-97	1997	1	1	FEBRUARY	2	5	FRIDAY	5	FRIDAY	NO	VALENTINE'S DAY	YES	
15-FEB-97	1997	1	1	FEBRUARY	2	6	SATURDAY	6	SATURDAY	YES		NO	
16-FEB-97	1997	1	1	FEBRUARY	2	7	SUNDAY	7	SUNDAY	YES		NO	
17-FEB-97	1997	1	1	FEBRUARY	3	1	MONDAY	1	MONDAY	NO	PRESIDENTS DAY	YES	
18-FEB-97	1997	1	1	FEBRUARY	3	2	TUESDAY	2	TUESDAY	NO		NO	
19-FEB-97	1997	1	1	FEBRUARY	3	3	WEDNESDAY	3	WEDNESDAY	NO		NO	
20-FEB-97	1997	1	1	FEBRUARY	3	4	THURSDAY	4	THURSDAY	NO		NO	
21-FEB-97	1997	1	1	FEBRUARY	3	5	FRIDAY	5	FRIDAY	NO		NO	
22-FEB-97	1997	1	1	FEBRUARY	3	6	SATURDAY	6	SATURDAY	YES		NO	
23-FEB-97	1997	1	1	FEBRUARY	3	7	SUNDAY	7	SUNDAY	YES		NO	

FIG. 11A

PRECIPITATION LOOKUP TABLE 704

PRECIP_TYPE	PRECIP_CODE	PRECEDENCE	PRECIP_DEFINITION
SN		6	SNOW
ICE		5	ICE
SNSH		4	SNOW SHOWERS
RA		3	RAIN
RASH		2	SHOWERS
DRY		1	DRY

EVENT_PRECIP_CODE	EVENT_CODE	EVENT_DEFINITION	PRECIP_CODE
MISS		MISSING EVENT STRING	DRY
UP		UNKNOWN PRECIPITATION	DRY
UNINT		UNINTERPRETABLE CODE	DRY
TS		THUNDERSTORM	DRY
RW		RAINSHOWERS (OBSOLETE CODE)	RASH
RN		RAIN (OBSOLETE CODE)	RA
IP		ICE PELLETS (OBSOLETE CODE)	ICE
PE		ICE PELLETS	ICE
DZ		DRIZZLE	RA
RA		RAIN	RA
SH		SHOWERS	RASH
SN		SNOW	SN
SG		SNOW GRAINS (SMALL GRANULAR SNOW)	SN
IC		ICE CRYSTALS	DRY
PL		ICE PELLETS	ICE
GR		HAIL	RASH
GS		SMALL HAIL OR SNOW PELLETS	RASH
BR		MIST (LIGHT FOG)	RASH
FG		FOG	DRY

FIG. 11B

HISTORICAL VALUE TABLE 706 AND FORECAST VALUE TABLE 708

NAME	NULL?	TYPE
STATION	NOT NULL	CHAR (4)
DAY	NOT NULL	DATE
MAX_TEMP	NUMBER (3)	
MIN_TEMP	NUMBER (3)	
MEAN_TEMP	NUMBER (3)	
PRECIP	NUMBER (6,2)	
PRECIP_CAT	VARCHAR2 (9)	
TYPE	VARCHAR2 (4)	

FIG. 11C

HISTORICAL CATEGORY TABLE AND FORECAST CATEGORY TABLE 714

NAME	NULL?	TYPE
STATION	NOT NULL	CHAR (4)
DAY	NOT NULL	DATE
MAX_TEMP	NUMBER (3)	
MIN_TEMP	NUMBER (3)	
MEAN_TEMP	NUMBER (3)	
TEMP_CAT	NUMBER (3)	
PRECIP	NUMBER (6,2)	
PRECIP_CAT	VARCHAR2 (9)	
TYPE	VARCHAR2 (4)	

FIG. 11D

PRODUCT FAVORABILITY TABLE 722

NAME	NULL?	TYPE
STATION	NOT NULL	CHAR (4)
DAY	NOT NULL	DATE
PRODUCT_ID	NOT NULL	NUMBER (10)
WX_FAV		NUMBER (1,2)

FIG. 11E

GIS TRANSFORM 725 AND GIS COMPARISON TABLE 727

NAME	NULL?	TYPE
STATION		NUMBER (1,2)
D1		NUMBER (1,2)
D2		NUMBER (1,2)
D3		NUMBER (1,2)
D4		NUMBER (1,2)
D5		NUMBER (1,2)
D6		NUMBER (1,2)
D7		NUMBER (1,2)

FIG. 11F

Replacement Sheet
Sheet 28 of 29
Appl. No. 09/656,397; Filed: Sep 6, 2000
Dkt No. 1481.0100004/PEG/TAD; Group Unit: 3628
Inventors: FOX et al.
Tel. No.: 202-371-2600
For: System, Method and Computer Program Product for
Short-Range Weather Adapted, Business Forecasting

PRE-GIS TRANSFORMATION

STATION	DAY	PRODUCT_ID	WX_FAV
KPHL	9/4/00	1	1
KPHL	9/5/00	1	2
KPHL	9/6/00	1	-1
KBWI	9/4/00	1	2
KBWI	9/5/00	1	0
KBWI	9/6/00	1	0
KBOS	9/4/00	1	1
KBOS	9/5/00	1	2
KBOS	9/6/00	1	-2

FIG. 11G

POST-GIS TRANSFORMATION

STATION	D1	D2	D3
KPHL	1	2	-1
KBWI	2	0	0
KBOS	1	2	-2

FIG. 11H